Parabolic antenna JRMC – 1200 –10/11

www.jirous.com

Antenna JRMC – 1200 – 10/11 is designed for microwave links at the frequency band 10 and 11 GHz. Precise performance with deep reflector dish is complying with standard ETSI class 3 and FCC Part 101A.

Electrical parameters:

Frequency range	10.0 – 12.0 GHz
Gain – Low frequency	40.0 ± 1 dBi
Gain – High frequency	41.0 ± 1 dBi
Front to back ratio	≥ 66 dB
XPD	≥ 37 dB
Beamwidth$_{-3\ dB}$	1.5°
Return loss	≥ 18 dB/10.3 – 11.7 GHz
Polarization	Linear, vertical/horizontal
Electrical Compliance	US FCC **Part 101A** | 10.550 – 10.680 GHz US FCC **Part 101A** | 10.7 – 11.7 GHz **Class 3** ETSI EN 302-217-4-2 ACMA - RALI FX3 **Grade B**

Mechanical parameters:

Parabola	Ø 1200 mm , aluminium alloy
Radom	UV steady plastic ABS
Input / output	Circle waveguide Ø 19 mm
Installation for mast	ø 80 - 120 mm ø 60 - 80 mm – with wind bracing set
Operating wind load	
- without wind bracing set	110 km/h (68 mph)
- with wind bracing set	140 km/h (87 mph)
Survival wind load	210 km/h (130 mph)
Weight of antenna	29 kg (64 lbs.)
Shipping dimensions – 1 pc	1300 x 800 x 1430 mm / 66.5 kg (147 lbs)
Shipping dimensions – 2 pcs	1300 x 1100 x 1430 mm / 102 kg (225 lbs)

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Usage:

The antenna is supplied together with a massive holder that allows easy mounting on a mast. Holder can be installed separately on the mast. Subsequently, the antenna with microwave unit can be simply hung up into it.

Antenna holder allows fine setting elevation ± 15°and azimuth ± 7°. Ready for right and left side mounting.

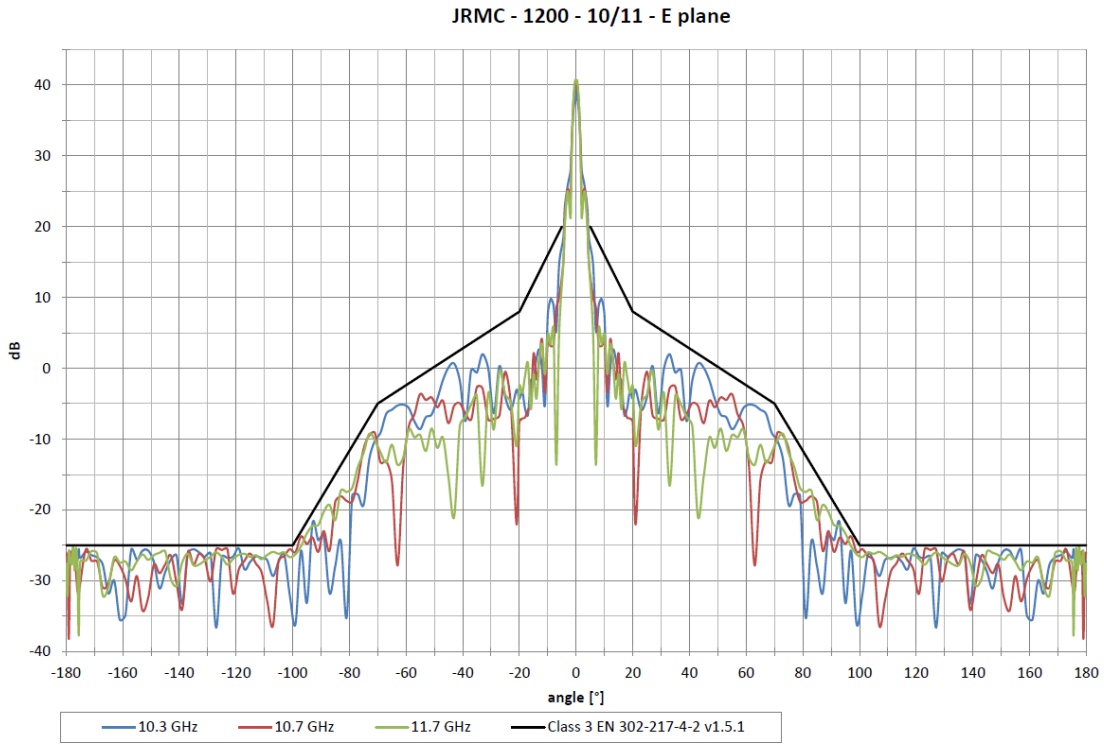
In the areas with the expected occurrence of the strong winds the usage of the (adjustable) wind bracing set is recommended. For mounting on the **mast ø 60 – 80 mm the usage of the (adjustable) wind bracing set** is strongly recommended.

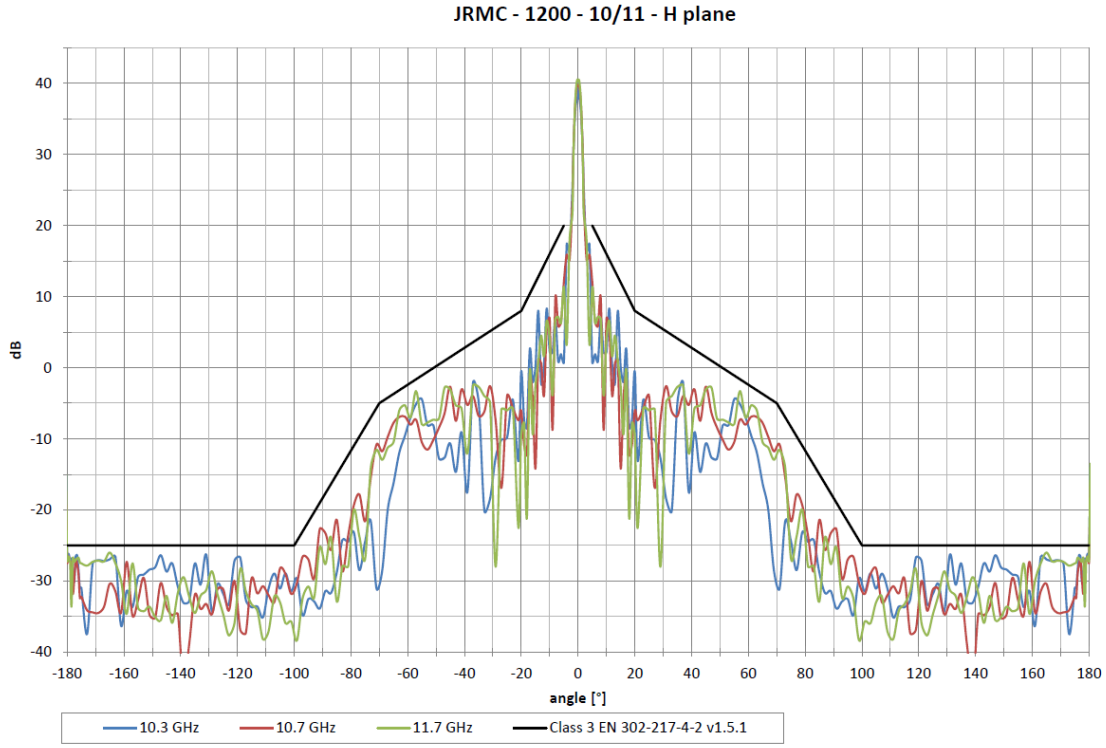
The usage of adjustable wind bracing set allows to set azimuth more comfortably.

The **wind bracing set** or the **adjustable wind bracing set** are optional accessories.

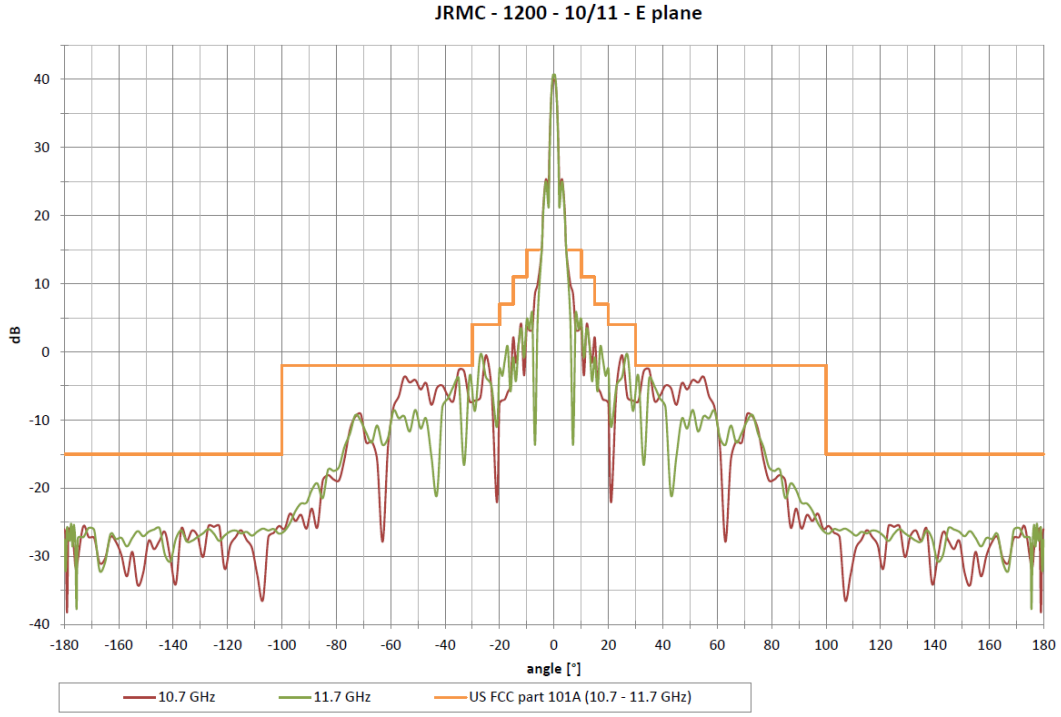
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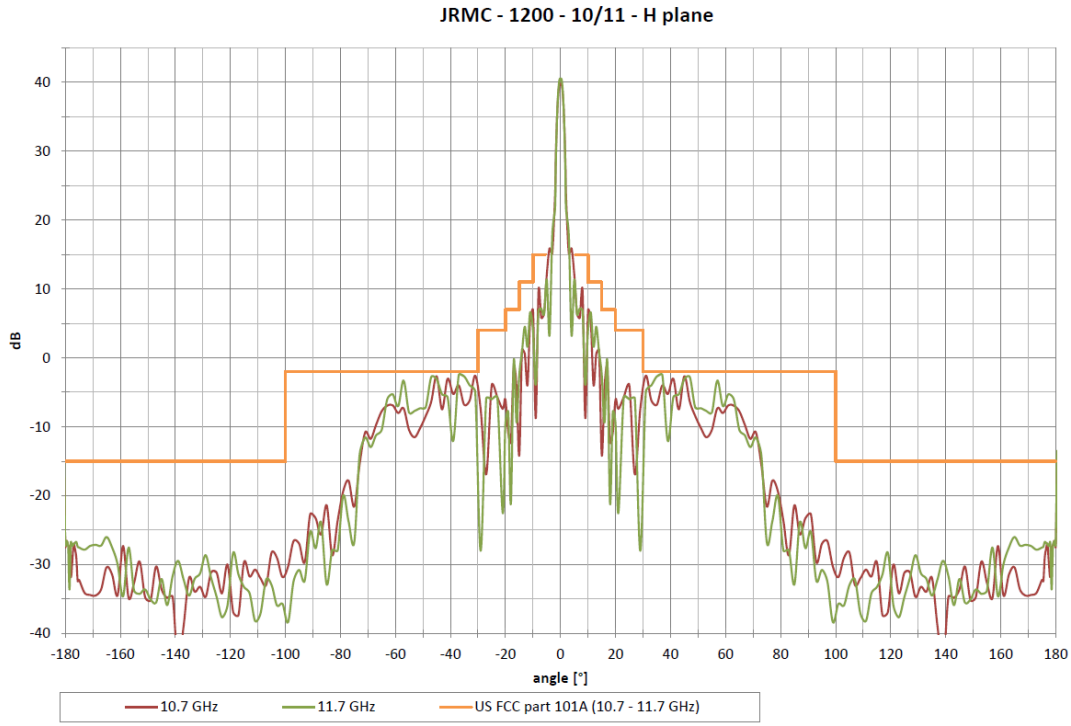
Measurement of radiation pattern:





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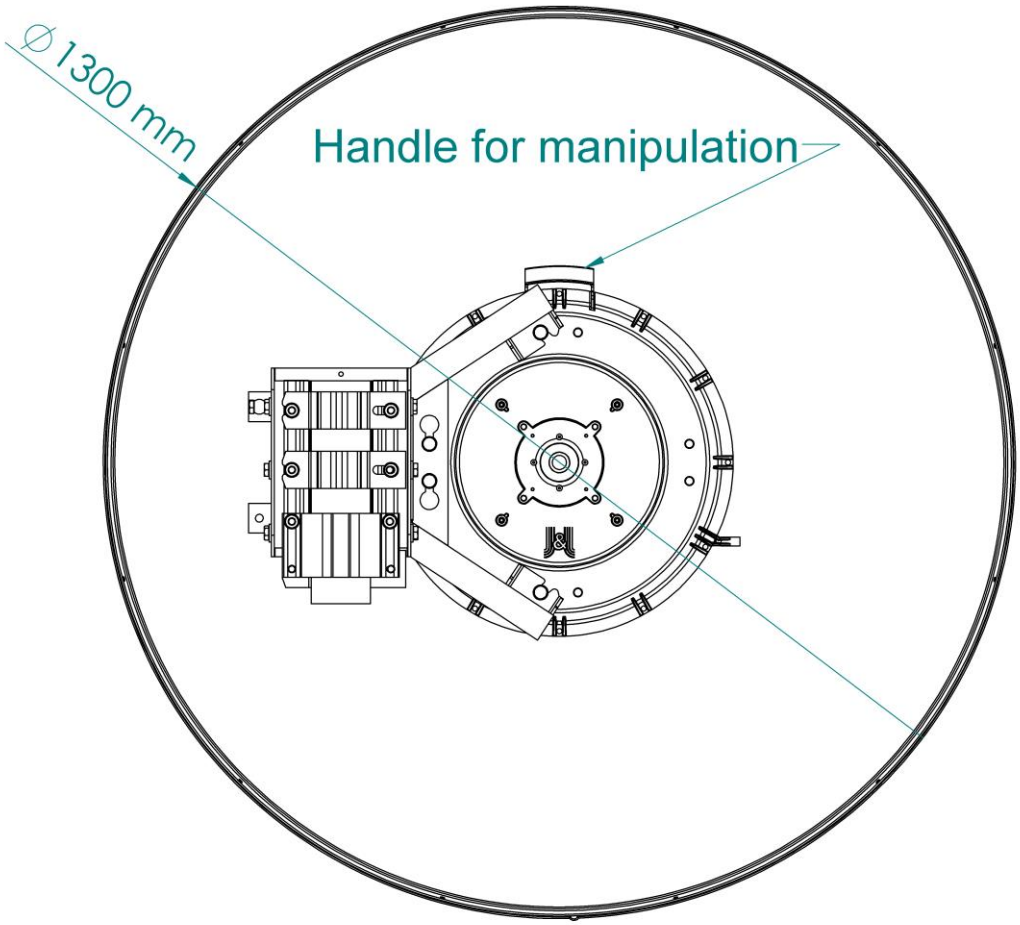


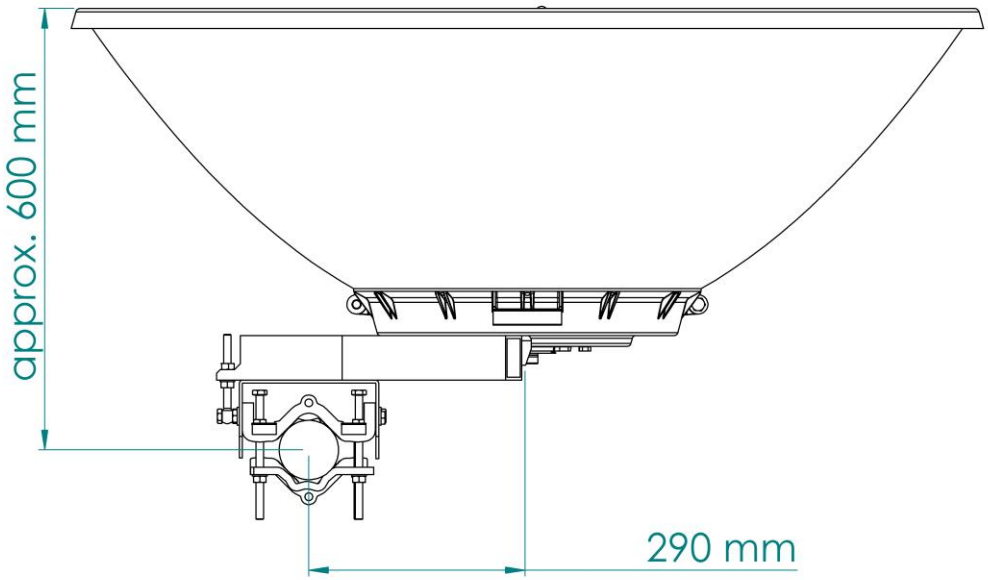


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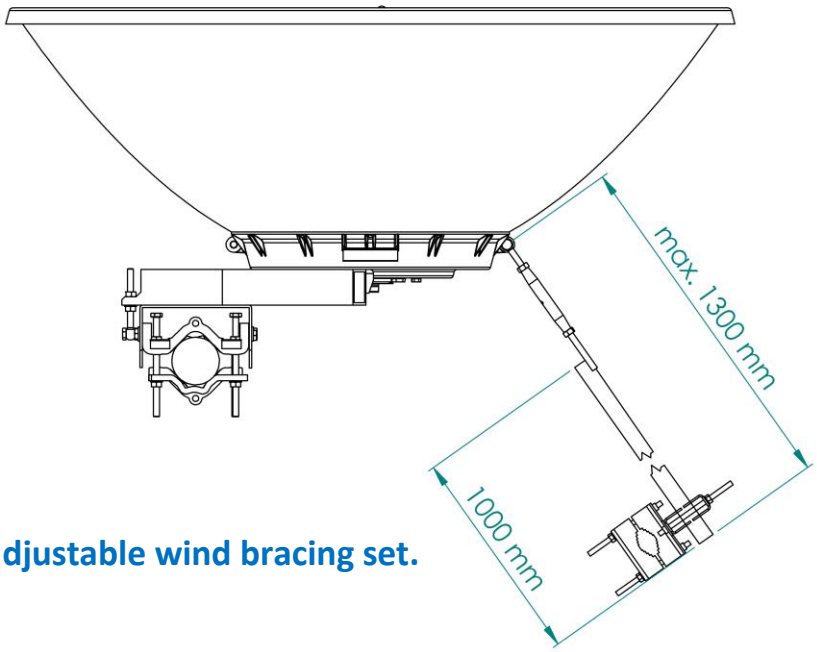
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Outline:

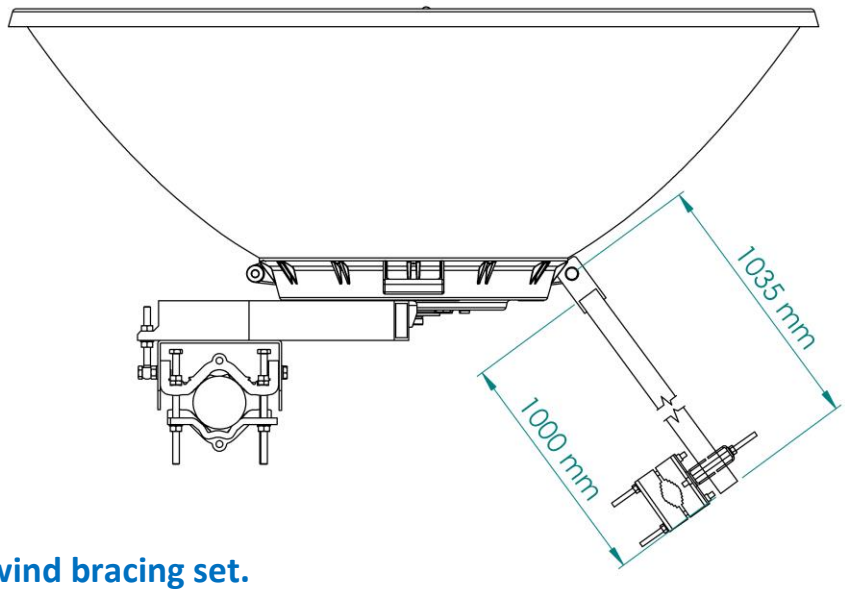




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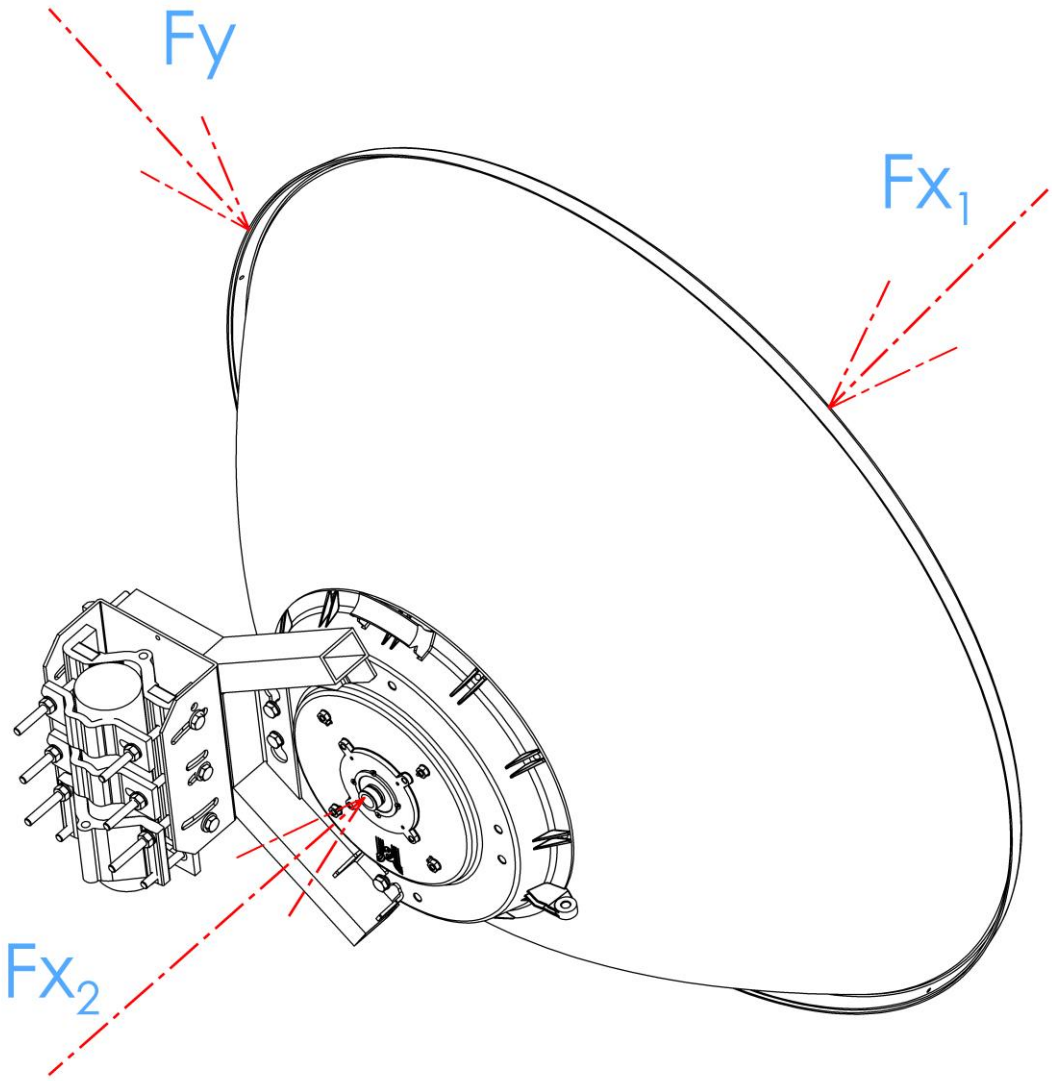


Antenna with adjustable wind bracing set.



Antenna with wind bracing set.

Wind loading:



Wind Loading at 200 km/h [125 mph]

Direction	Force [N]	Force [lbf]
Fx_1	2696	606
Fx_2	2186	491.4
Fy	247	55.5